

REMARKS

Claims 1-26 are pending and under consideration. In the final Office Action dated June 11, 2007, the Examiner made the following disposition:

- A.) Rejected claims 1, 2, 7, 8, 12, 13, 18-20, and 23-25 under 35 U.S.C. §103(a) as being unpatentable over *Calder* (U.S. 5,963,972) in view of *Lomet* (U.S. 5,870,763) and further in view of *Serra* (U.S. 6,226,787).
- B.) Rejected claims 3, 4, 6, 9-11, 14, 15, 17, 21, and 22 under 35 U.S.C. §103(a) as being unpatentable over *Calder* in view of *Lomet*, further in view of *Serra*, and further in view of *Ju* (U.S. 6,175,957).
- C.) Rejected claims 5, 16, and 26 under 35 U.S.C. §103(a) as being unpatentable over *Calder* in view of *Lomet*, and further in view of *Serra*, and further in view of *Cai* (U.S. 6,349,363).

Applicants respectfully traverse the rejections and address the Examiner's disposition below.

Claim 1 has been amended to include the subject matter of claims 2 and 3. Claims 2 and 3 have been canceled.

Claim 8 has been amended to include the subject matter of claim 11. Claim 11 has been canceled.

Claim 12 has been amended to include the subject matter of claims 13 and 14. Claims 13 and 14 have been canceled.

Claim 19 has been amended to include subject matter similar to that claimed in claims 2 and 3.

Claim 20 has been amended to include the subject matter of claim 22. Claim 22 has been canceled.

Claims 4-6 and 15-17 have been amended to correct informalities.

Claims 22-26 have been canceled.

A.) Rejected claims 1, 2, 7, 8, 12, 13, 18-20, and 23-25 under 35 U.S.C. §103(a) as being unpatentable over *Calder* (U.S. 5,963,972) in view of *Lomet* (U.S. 5,870,763) and further in view of *Serra* (U.S. 6,226,787).

Applicants respectfully disagree with the rejection.

Independent claims 1, 8, 12, 19, and 20, each as amended, each claim subject matter relating to representing a data flow program as a graph comprising nodes and node dependencies between the nodes. The node dependencies between nodes are determined based on data read and data write identifiers for code segments associates with the respective nodes. The data read and data write identifiers identify at least a portion of data read or written by the respective code segment. The graph is displayed. The displaying comprises displaying a graph comprising nodes assigned to the blocks and dependency arcs representing the determined dependencies. The node dependencies include satisfied dependencies and unsatisfied dependencies. The displaying comprises displaying the unsatisfied dependencies using an unsatisfied dependency visualization, and displaying the satisfied dependencies using a satisfied dependency visualization.

This is clearly unlike *Calder* in view of *Lomet* in view of *Serra* and further in view of *Ju*, which fails to disclose or suggest presenting dependency arcs using a satisfied dependency visualization when the determined dependency is satisfied, and presenting the dependency arcs using an unsatisfied dependency visualization when the determined dependency is unsatisfied, wherein the dependencies are satisfied/unsatisfied dependencies that represent a portion of data in a block that is read or written by a respective code segment in a different block. The Examiner acknowledges that *Calder*, *Lomet*, and *Serra* fail to disclose this claimed subject matter. *Office Action of 6/11/07*, page 7. Therefore, the Examiner combines these three cited references with *Ju*.

Applicants respectfully submit that *Ju* also fails to disclose or suggest this claimed subject matter. *Ju* displays a graph having nodes and arcs. The nodes represent basic blocks. And the arcs represent “transfer of control between pairs of basic blocks. *Ju* 10:1-5. Thus, unlike Applicants’ claimed invention, *Ju*’s arcs do not represent satisfied/unsatisfied dependencies that represent a portion of data in a block that is read or written by a respective code segment in a different block. Instead, *Ju*’s arcs represent transfer of control between blocks. This is unrelated to Applicants’ claimed dependency.

For at least these reasons, *Calder* in view of *Lomet* in view of *Serra* and further in view of *Ju* fails to teach or suggest claims 1, 8, 12, 19, and 20.

Claims 2, 13, and 23-25 have been canceled.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

B.) Rejected claims 3, 4, 6, 9-11, 14, 15, 17, 21, and 22 under 35 U.S.C. §103(a) as being unpatentable over Calder in view of Lomet, further in view of Serra, and further in view of Ju (U.S. 6,175,957).

Applicants respectfully disagree with the rejection.

Independent claims 1, 8, 12, and 20 are allowable over *Calder* in view of *Lomet* and *Serra* and further in view of *Ju* as discussed above.

Claims 4, 6, 9, 10, 15, and 17 depend directly or indirectly from claims 1, 8, 12, or 20 and are therefore allowable for at least the same reasons that claims 1, 8, 12, and 20 are allowable.

Claims 3, 11, 14, 21, and 22 have been canceled.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

C.) Rejected claims 5, 16, and 26 under 35 U.S.C. §103(a) as being unpatentable over Calder in view of Lomet, and further in view of Serra, and further in view of Cai (U.S. 6,349,363).

Applicants respectfully disagree with the rejection.

Independent claims 1 and 12 are allowable over *Calder* in view of *Lomet* and *Serra* as discussed above. *Cai* still fails to disclose or suggest presenting dependency arcs using a satisfied dependency visualization when the determined dependency is satisfied, and presenting the dependency arcs using an unsatisfied dependency visualization when the determined dependency is unsatisfied, wherein the dependencies are satisfied/unsatisfied dependencies that represent a portion of data in a block that is read or written by a respective code segment in a different block. Therefore, *Calder* in view of *Lomet* and further in view of *Serra* and further in view of *Cai* still fails to disclose or suggest claims 1, 12, and 24.

Claims 5 and 16 depend directly or indirectly from claims 1 or 12 and are therefore allowable for at least the same reasons that claims 1 and 12 are allowable.

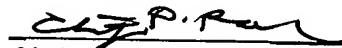
Claim 26 has been canceled.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

CONCLUSION

In view of the foregoing, it is submitted that claims 1, 4-10, 12, and 15-21 are patentable. It is therefore submitted that the application is in condition for allowance. Notice to that effect is respectfully requested.

Respectfully submitted,


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